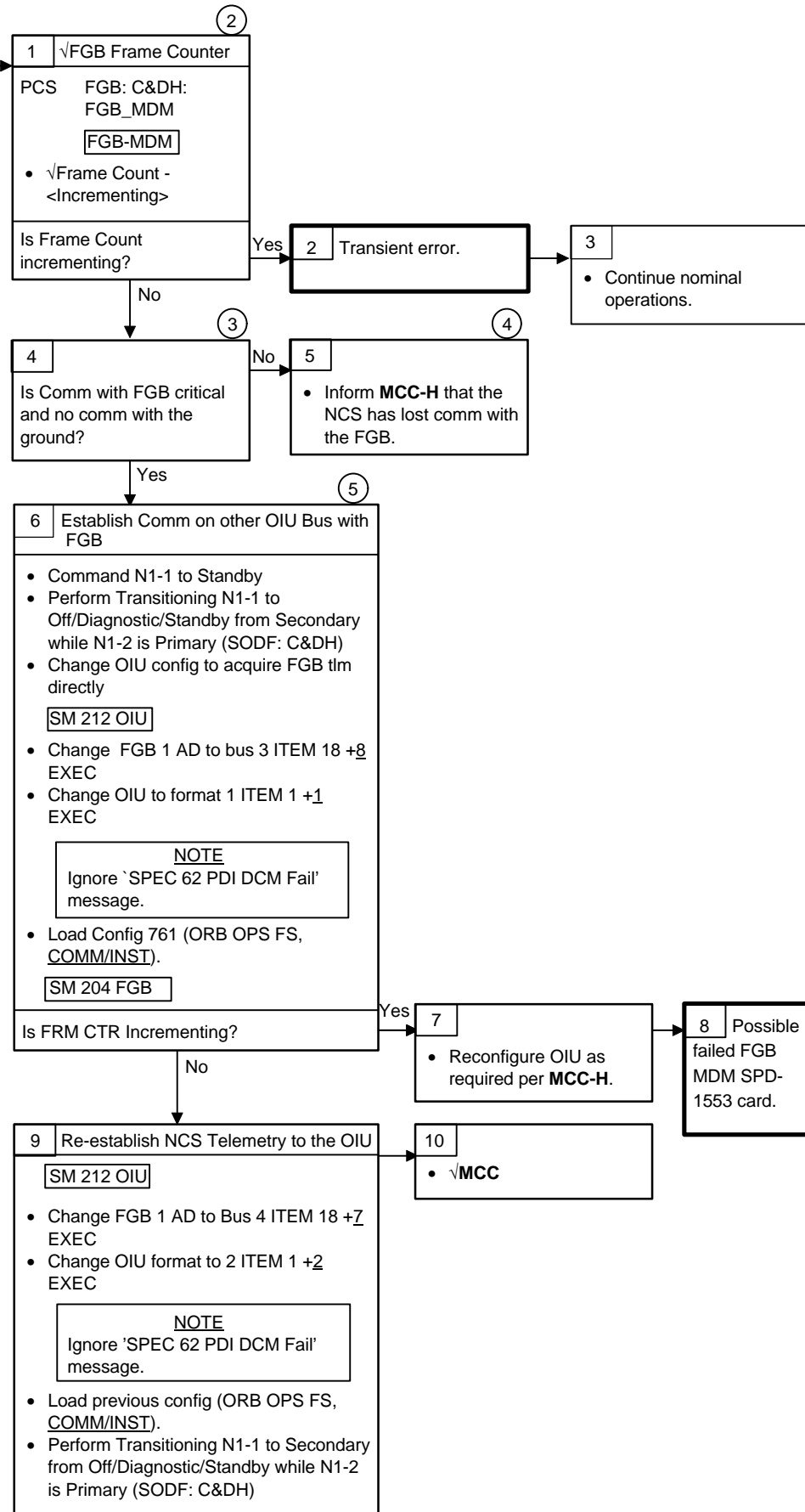CAUTION
ALARM

(1)

Prime NCS Detected RT Fail MDM FGB-2(1) - FGB

Nominal Config:
Channel Swapping Enabled

PCS Node1: N1-2: UB_Orb-N1-2

N1_2_MDM_UB_
ORB_N1_2_Ch_Sw_
Inhib_Stat - ena

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1 | √FGB Frame Counter   (2)

PCS   FGB: C&DH: FGB_MDM

FGB-MDM

• √Frame Count - <Incrementing>

Is Frame Count incrementing? —Yes→ 2 | Transient error. → 3
• Continue nominal operations. (3)

No↓

4   (3) —No→ 5   (4)
Is Comm with FGB critical and no comm with the ground? | • Inform **MCC-H** that the NCS has lost comm with the FGB.

Yes↓

6 | Establish Comm on other OIU Bus with FGB   (5)

• Command N1-1 to Standby
• Perform Transitioning N1-1 to Off/Diagnostic/Standby from Secondary while N1-2 is Primary (SODF: C&DH)
• Change OIU config to acquire FGB tlm directly

SM 212 OIU

• Change FGB 1 AD to bus 3 ITEM 18 +8 EXEC
• Change OIU to format 1 ITEM 1 +1 EXEC

NOTE
Ignore `SPEC 62 PDI DCM Fail' message.

• Load Config 761 (ORB OPS FS, COMM/INST).

SM 204 FGB

Is FRM CTR Incrementing? —Yes→ 7
• Reconfigure OIU as required per **MCC-H**. → 8 | Possible failed FGB MDM SPD-1553 card.

No↓

9 | Re-establish NCS Telemetry to the OIU → 10
• √**MCC**

SM 212 OIU

• Change FGB 1 AD to Bus 4 ITEM 18 +7 EXEC
• Change OIU format to 2 ITEM 1 +2 EXEC

NOTE
Ignore 'SPEC 62 PDI DCM Fail' message.

• Load previous config (ORB OPS FS, COMM/INST).
• Perform Transitioning N1-1 to Secondary from Off/Diagnostic/Standby while N1-2 is Primary (SODF: C&DH)

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(1) Error message indicates that the FGB frame count has not updated.

(2) NCS software will search for 60 seconds until comm is established with either FGB.

(3) Comm is critical if FGB commands or telemetry is required to complete a time critical procedure.

(4) **MCC-M** may reset current FGB-MDM, or swap to other FGB MDM.

(5) This step will cause loss of NCS telemetry to the ground, loss of NCS telemetry to NCS SPEC, and loss of secondary NCS telemetry.

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